

APPROVED	O.G. FIG.	
BY	1755	SUBCLASS
DRAFTSMAN		

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10	30	50
CGCCCCAGCCGCCGCCCTCCAAGCCCTGAGCTTCCGGGGACCACAATGAACAAGTTGCTG		
		<u>M</u> <u>N</u> <u>K</u> <u>L</u> <u>L</u>
70	90	110
TGCTGCCGCCGCTCGTCTGGACATCTCCATTAAAGTGGACCCACCCAGGAAACGTTCTCT		
<u>C</u> <u>C</u> <u>A</u> <u>L</u> <u>V</u> <u>F</u> <u>L</u> <u>D</u> <u>I</u> <u>S</u> <u>I</u> <u>K</u> <u>W</u> <u>T</u> <u>T</u> <u>O</u> <u>E</u> <u>T</u> <u>F</u> <u>P</u>		
130	150	170
CCAAACTACCTTCATTATGACGAAGAACCTCTCATCAGCTGTTGACAAATGCTCT		
<u>P</u> <u>K</u> <u>Y</u> <u>L</u> <u>H</u> <u>Y</u> <u>D</u> <u>E</u> <u>E</u> <u>T</u> <u>S</u> <u>H</u> <u>Q</u> <u>L</u> <u>L</u> <u>C</u> <u>D</u> <u>K</u> <u>C</u> <u>P</u>		
190	210	230
CCTGGTACCTACCTAAAACAACACTGTACAGCAAAGTGGAAAGACCGTGTGCGCCCTTGC		
<u>P</u> <u>G</u> <u>T</u> <u>Y</u> <u>L</u> <u>K</u> <u>Q</u> <u>H</u> <u>C</u> <u>T</u> <u>A</u> <u>K</u> <u>W</u> <u>K</u> <u>T</u> <u>V</u> <u>C</u> <u>A</u> <u>P</u> <u>C</u>		
250	270	290
CCTGACCACTACTACACAGACAGCTGGCACACCAGTGAAGACTGTCTATACTGCAGCCCC		
<u>P</u> <u>D</u> <u>H</u> <u>Y</u> <u>Y</u> <u>T</u> <u>D</u> <u>S</u> <u>W</u> <u>H</u> <u>T</u> <u>S</u> <u>D</u> <u>E</u> <u>C</u> <u>L</u> <u>Y</u> <u>C</u> <u>S</u> <u>P</u>		
310	330	350
GTGTGCAAGGAGCTGCAGTACGTCAAGCAGGAGTCCAATGCCACCCACAACCCGCTGTGC		
<u>V</u> <u>C</u> <u>K</u> <u>E</u> <u>L</u> <u>Q</u> <u>Y</u> <u>V</u> <u>K</u> <u>Q</u> <u>E</u> <u>C</u> <u>N</u> <u>R</u> <u>T</u> <u>H</u> <u>N</u> <u>R</u> <u>V</u> <u>C</u>		
370	390	410
GAATGCAAGGAAGGGCCTACCTTGACATAGAGTTCTGCTGAAACATAGGAGCTGCCCT		
<u>E</u> <u>C</u> <u>K</u> <u>E</u> <u>G</u> <u>R</u> <u>Y</u> <u>L</u> <u>E</u> <u>I</u> <u>E</u> <u>F</u> <u>C</u> <u>L</u> <u>K</u> <u>H</u> <u>R</u> <u>S</u> <u>C</u> <u>P</u>		
430	450	470
CCTGGATTTGGAGTGCTGCAAGCTGGAACCCCAGAGCAAATACAGTTGCAAAGATGT		
<u>P</u> <u>G</u> <u>F</u> <u>G</u> <u>V</u> <u>V</u> <u>Q</u> <u>A</u> <u>G</u> <u>T</u> <u>P</u> <u>E</u> <u>R</u> <u>N</u> <u>T</u> <u>V</u> <u>C</u> <u>K</u> <u>R</u> <u>C</u>		
490	510	530
CCACATGGGTCTCTCAAATGAGACGTCTAAAGCACCCTGTAGAAAACACACAAAT		
<u>P</u> <u>D</u> <u>G</u> <u>F</u> <u>F</u> <u>S</u> <u>N</u> <u>E</u> <u>T</u> <u>S</u> <u>S</u> <u>K</u> <u>A</u> <u>P</u> <u>C</u> <u>R</u> <u>K</u> <u>H</u> <u>T</u> <u>N</u>		
550	570	590
TGCAGTGTCTTGCTCCTGCTAACTCAGAAAGGAAATGCAACACACGACAACATATGT		
<u>C</u> <u>S</u> <u>V</u> <u>F</u> <u>G</u> <u>L</u> <u>L</u> <u>T</u> <u>Q</u> <u>K</u> <u>G</u> <u>N</u> <u>A</u> <u>T</u> <u>H</u> <u>D</u> <u>N</u> <u>I</u> <u>C</u>		
610	630	650
TCCGGAAACACTGAATCAACTCAAAATGTGGAATAGATGTTACCTGCTGTGAGGAGGA		
<u>S</u> <u>G</u> <u>N</u> <u>S</u> <u>E</u> <u>S</u> <u>T</u> <u>Q</u> <u>K</u> <u>C</u> <u>G</u> <u>I</u> <u>D</u> <u>V</u> <u>T</u> <u>L</u> <u>C</u> <u>E</u> <u>E</u> <u>A</u>		
670	690	710
TTCTTCAGGTTGCTGTCCTACAAAGTTACGCCCTAACTGGCTTAGTGTCTGGTAGAC		
<u>F</u> <u>F</u> <u>R</u> <u>F</u> <u>A</u> <u>V</u> <u>P</u> <u>T</u> <u>K</u> <u>F</u> <u>T</u> <u>P</u> <u>N</u> <u>W</u> <u>L</u> <u>S</u> <u>V</u> <u>L</u> <u>V</u> <u>D</u>		
730	750	770
AATTTCAGGTTGCTGTCCTACAAAGTTACGCCCTAACTGGCTTAGTGTCTGGTAGAC		
<u>N</u> <u>L</u> <u>P</u> <u>G</u> <u>T</u> <u>K</u> <u>V</u> <u>N</u> <u>A</u> <u>E</u> <u>S</u> <u>V</u> <u>E</u> <u>R</u> <u>I</u> <u>K</u> <u>R</u> <u>Q</u> <u>H</u> <u>S</u>		
790	810	830
TCACACAGAACAGACTTTCCAGCTGCTGAAGTTATGAAACATCAAAACAAAGACCAAGAT		
<u>S</u> <u>Q</u> <u>E</u> <u>Q</u> <u>T</u> <u>F</u> <u>Q</u> <u>L</u> <u>L</u> <u>K</u> <u>L</u> <u>W</u> <u>K</u> <u>H</u> <u>Q</u> <u>N</u> <u>K</u> <u>D</u> <u>Q</u> <u>D</u>		

FIG.1A

APPROVED	D.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

Appl. No. 09/526,437; Filed: March 15, 2000
 Dkt. No. 1488.0710005; Group Art Unit: 1647
 Inventor(s): Greene *et al.*; Tel: 202/371-2600
 Title: Antibodies to Human Tumor Necrosis Factor Receptor-Like Genes

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850	870	890																			
ATAGTCAGAAGATCATCCAAGATATTGACCTCTGTGAAAACAGCGTCAGCGGCACATT																					
I	V	K	K	I	I	Q	D	I	D	L	C	E	N	S	V	Q	R	H	I		
910																					
930			950																		
GGACATGCTAACCTCACCTTCGAGCAGCTTCGTTGATGGAAAGCTTACCGGGAAAG																					
G	H	A	N	L	T	F	E	Q	L	R	S	L	M	E	S	L	P	G	K		
970																					
990			1010																		
AAAGTGGGAGCAGAAGACATTGAAAAAACAAATAAAGGCATGCAAACCCAGTGACCAGATC																					
K	V	G	A	E	D	I	E	K	T	I	K	A	C	K	P	S	D	Q	I		
1030																					
1050			1070																		
CTGAAGCTGCTCAGTTGCGGAATAAAAATGGCGACCAAGACACCTTGAAGGGCTA																					
L	K	L	L	S	L	W	R	I	K	N	G	D	Q	D	T	L	K	G	L		
1090																					
1110			1130																		
ATGCACGCCACTAAAGCACTCAAAGACGTACCACTTCCCAAAATGTCACTCAGAGTCTA																					

FIG.1A1

APPLICANT	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

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M	H	A	L	K	H	S	K	T	Y	H	F	P	K	T	V	T	Q	S	L	
1150										1170								1190		
AAGAAGACCATCAGGTTCTTCACAGCTTCACAATGTACAAATTGTATCAGAAGTTATT																				
K	K	T	I	R	F	L	H	S	F	T	M	Y	K	L	Y	Q	K	L	F	
1210										1230								1250		
TTAGAAATGATAGCTAACGAGGCTCAATCAGTAAAAATAAGCTGCTTATAACTGGAAATG																				
L	E	M	I	G	N	Q	V	Q	S	V	K	I	S	C	L	*				
1270									1290								1310			
GCCATTGAGCTGTTCTCACAAATTGGCGAGATCCCATGGATGAGTAAACTGTTCTCAG										1350								1370		
1330																				
GCACTTGAGGCTTCACTGATATCTTCTCATTACCACTGACTAATTTGCCACAGGCTA																				
1390									1410									1430		
CTAAAAGAAACTATGATGTGAGAAAGGACTAACATCTCCTCCAATAAACCCCAAATGGT										1450			1470					1490		
TAATCCAATGTCAGATCTGGATCGTTATCTACTGACTATATTCCTTATTACTGCTT										1510										
GCACTAATTCAACTGGAAAAAAAAAA																				

FIG.1B

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRFTSMAN		

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10	30	50
ATGAAACAAGTTGCTGTGCTGCCGCTCGT	TTCTGGACATCTCCATTAA	GTGGACCACC
M N K L L C C A L V F L D I S I K W T T		
70	90	110
CAGGAAACGTTCCCTCCAAACTACCTTCATTATGACGAAGAACCTCTCATCAGCTGTC		
Q E T F P P K Y L H Y D E E T S H Q L L		
130	150	170
TGTGACAAATGTCCTCCGGTACCTACCTAAAACAACACTGTACAGCAAAGTGGAAAGACC		
C D K C P P G T Y L K Q H C T A K W K T		
190	210	230
GTGTGCCGCCCTGCCCTGACCACTACTACACAGACAGCTGGCACACCAACTGACGAGTGT		
V C A P C P D H Y Y T D S W H T S D E C		
250	270	290
CTATACTGCAGCCCCGTGCAAGGAGCTGCAGTACGTCAACCAAGGAGTCCAATCGCACC		
L Y C S P V C K E L Q Y V K Q E C N R T		
310	330	350
CACAACCGCGTGTGCCAATGCAAGGAAGGGCGTACCTTGAGATAGACTCTGCTTGAAA		
H N R V C E C K E G R Y L E I E F C L K		
370	390	410
CATAGGAGCTGCCCTCTGGATTGGAGTCGTGCAAGCTGGAACCCCCAGAGCGAAATACA		
H R S C P P G F G V V Q A G T P E R N T		
430	450	470
GTTTCCAAAAGATGTCCAGATGGGTTCTCTCAAATGAGACGTCACTAAAGCACCCGT		
V C K R C P D G F F S N E T S S K A P C		
490	510	530
AGAAAACACACAAATTGCACTGTCTTGCTCTCTGCTAAACTCAGAAAGGAAATGCAACA		
R K H T N C S V F G L L L T Q K G N A T		
550	570	590
CACGACAACATATGTCGGAAACAGTGAATCAACTCAAAATGTGGAATAGATGTTACC		
H D N I C S G N S E S T Q K C G I D V T		
610	630	650
CTGTGTGAGGAGGCATTCTCAGGTTGCTGTTCTACAAAGTTACGCCCTAACTGGCTT		
L C E E A F F R F A V P T K F T P N W L		
670	690	710
AGTGTCTTGGTAGACAATTGCTGGCACCAAAGTAAACCGCAGAGACTGTAGAGAGGATA		
S V L V D N L P G T K V N A E S V E R I		
730	750	770
AAACGGCAACACAGCTCACAGAACAGACTTTCCAGCTGCTGAAGTTATGAAACATCAA		
K R Q H S S Q E Q T F Q L L K L W K H Q		
790	810	830
AACAAAGACCAAGATATAGTCAGAACATCATCCAAGATATTGACCTCTGTGAAAACAGC		
N K D Q D I V K K I I Q D I D L C E N S		

FIG.2A

APPROV'D	O. G. FIG.
BY	
DRAFTSMAN	CLASS SUBCLASS

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850	870	890
GTGCAGCGGCACATTGGACATGCTAACCTCACCTTCGAGCAGCTCGTAGCTTGATGGAA		
V Q R H I G H A N L T F E Q L R S L M E		
910	930	950
AGCTTACCGGGAAAGAAACTGGGAGCAGAACATTGAAAAAACATAAAGGCATGCCAA		
S L P G K K V G A E D I E K T I K A C K		
970	990	1010
CCCAGTGACCAAGATCCTGAACCTGCTCAGTTCTGGCGAATAAAAATGGCCACCAAGAC		
P S D Q I L K L L S L W R I K N G D Q D		
1030	1050	1070
ACCTTGAAGGGCTAATGCACCGCACTAAAGCACTCAAAGACGTACCACTTCCAAA		
T L K G L M H A L K H S K T Y H F P K T		
1090	1110	1130
GTCACTCAGAGTCTAAAGAACCATCAGGTTCTTCACAGCTTCACAATGTACAAATTG		
V T Q S L K K T I R F L H S F T M Y K L		
1150	1170	

FIG.2A1

TATCAGAAGTTATTTAGAAATGATAGTAATCTAGAAAAGATCTAA
 Y Q K L F L E M I G N L E K I

FIG.2B

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

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FIG. 3

APPROVING BY	O.G. FIG.	
DRAFTSMAN	CLASS	SUBCLASS

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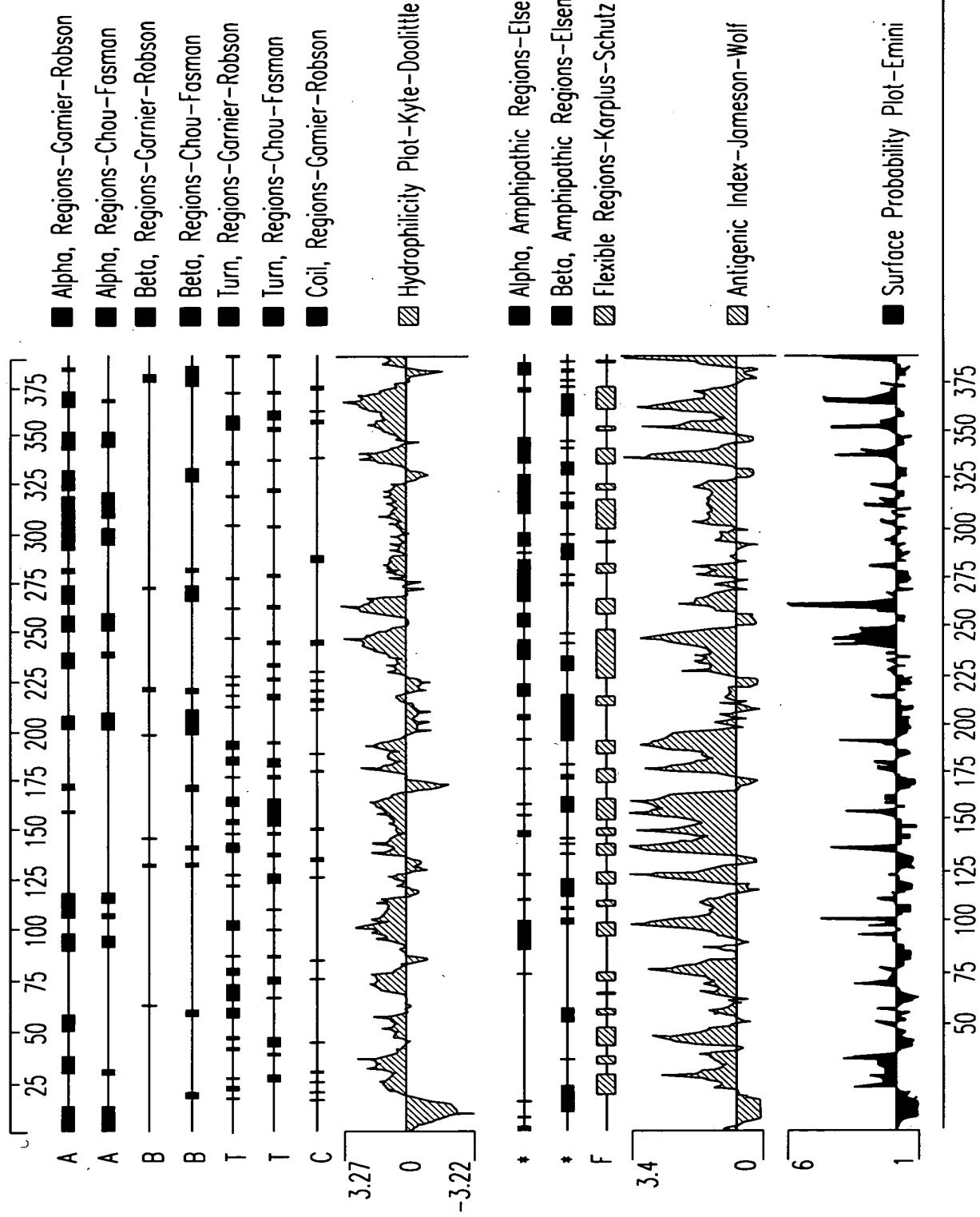


FIG. 4

APPROVED	D.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

Appl. No. 09/526,437; Filed: March 15, 2000
 Dkt. No. 1488.0710005; Group Art Unit: 1647
 Inventor(s): Greene *et al.*; Tel: 202/371-2600
 Title: Antibodies to Human Tumor Necrosis Factor Receptor-Like Genes

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GOAT ANTI-HUMAN sTNFR I HAS CROSS-REACTIVITY
 TO HSABH13

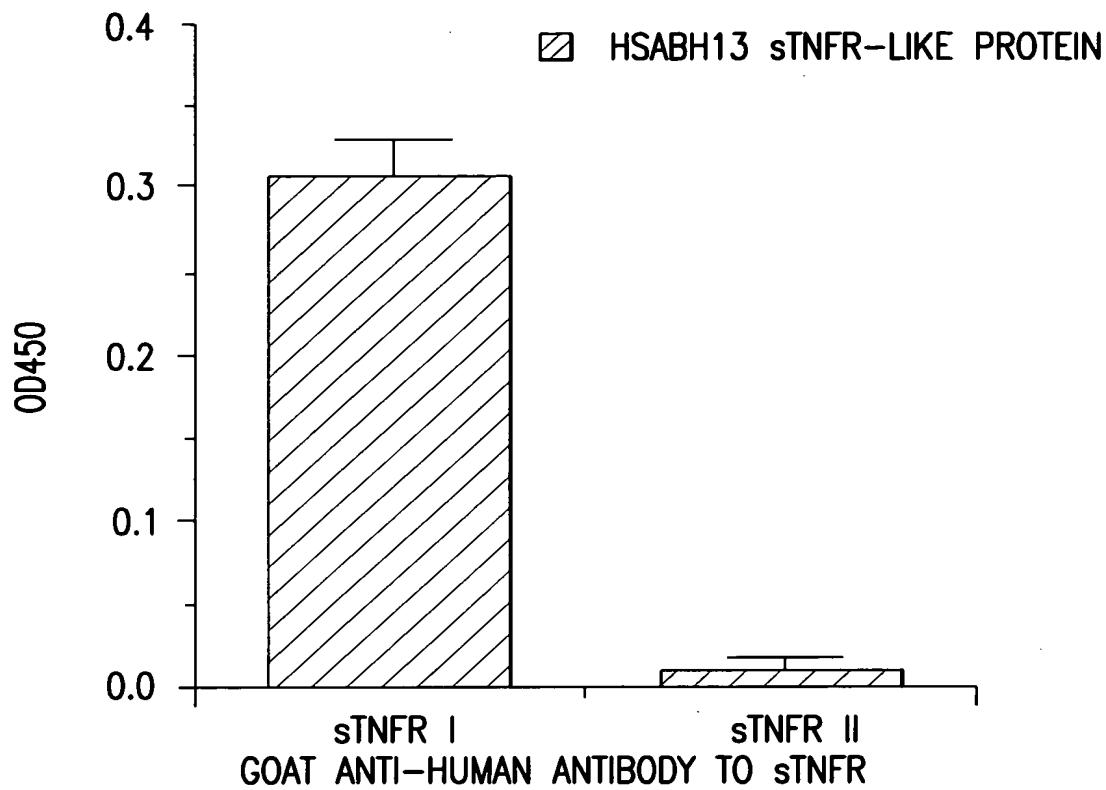


FIG.5

APPENDIX C	D.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

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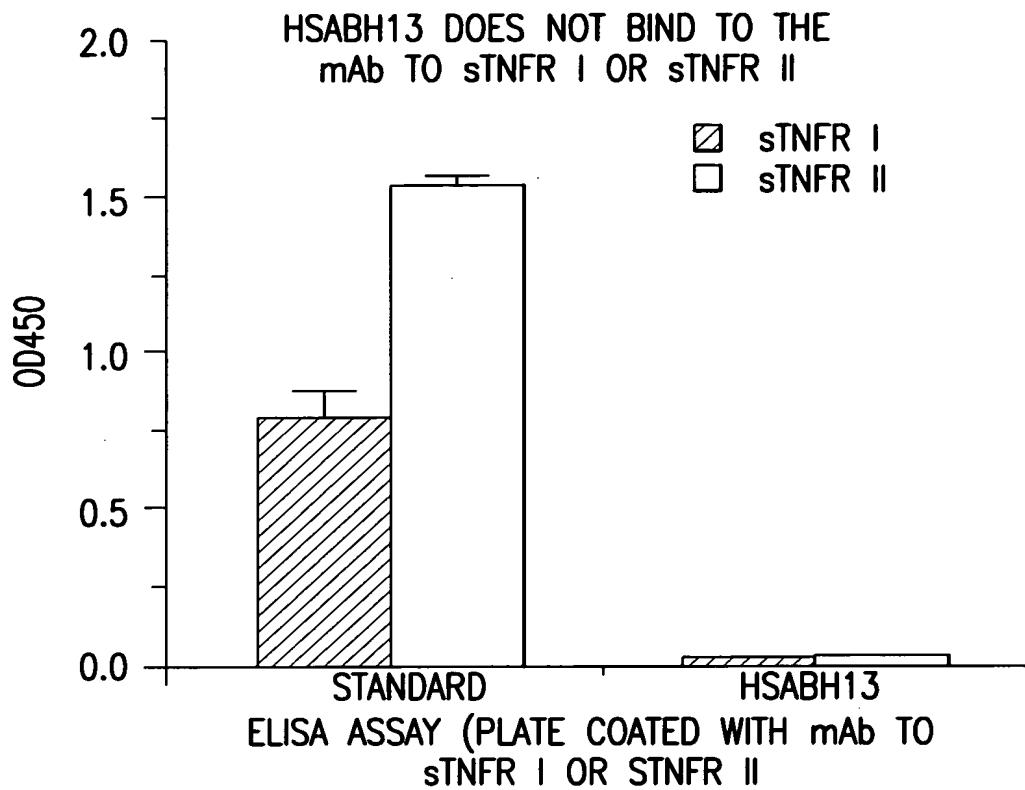


FIG.6

TNF-BETA HAS HIGHER AFFINITY TO HSAHAB13 THAN TNF-ALPHA,
 AND HUVE019 DOES NOT INHIBIT THE BINDING

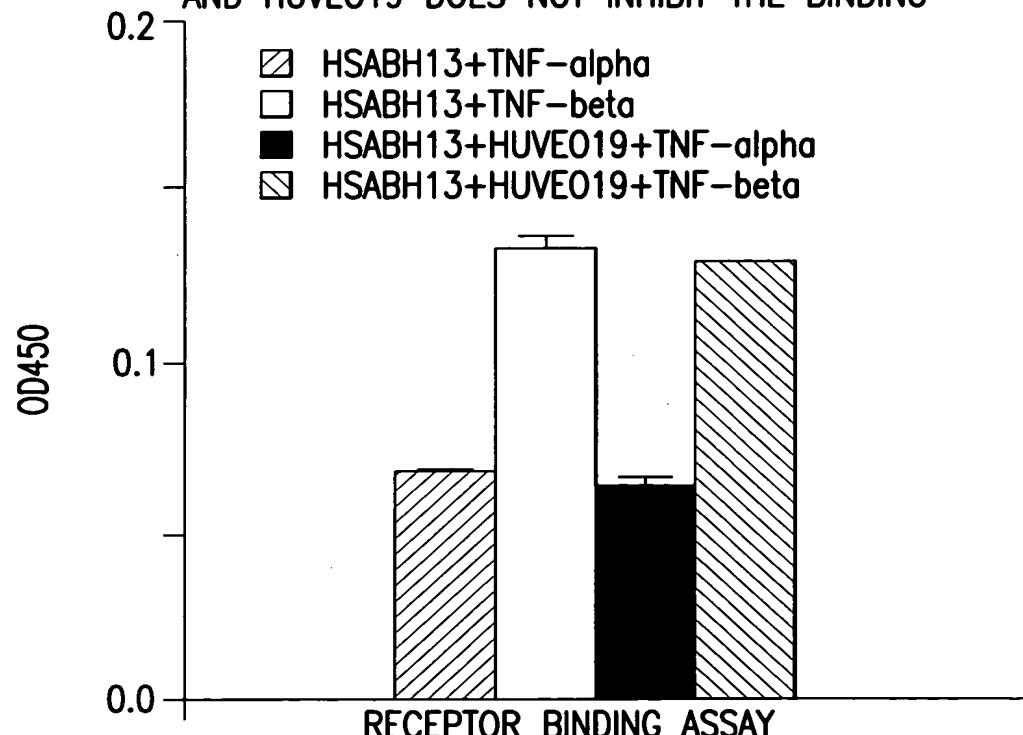


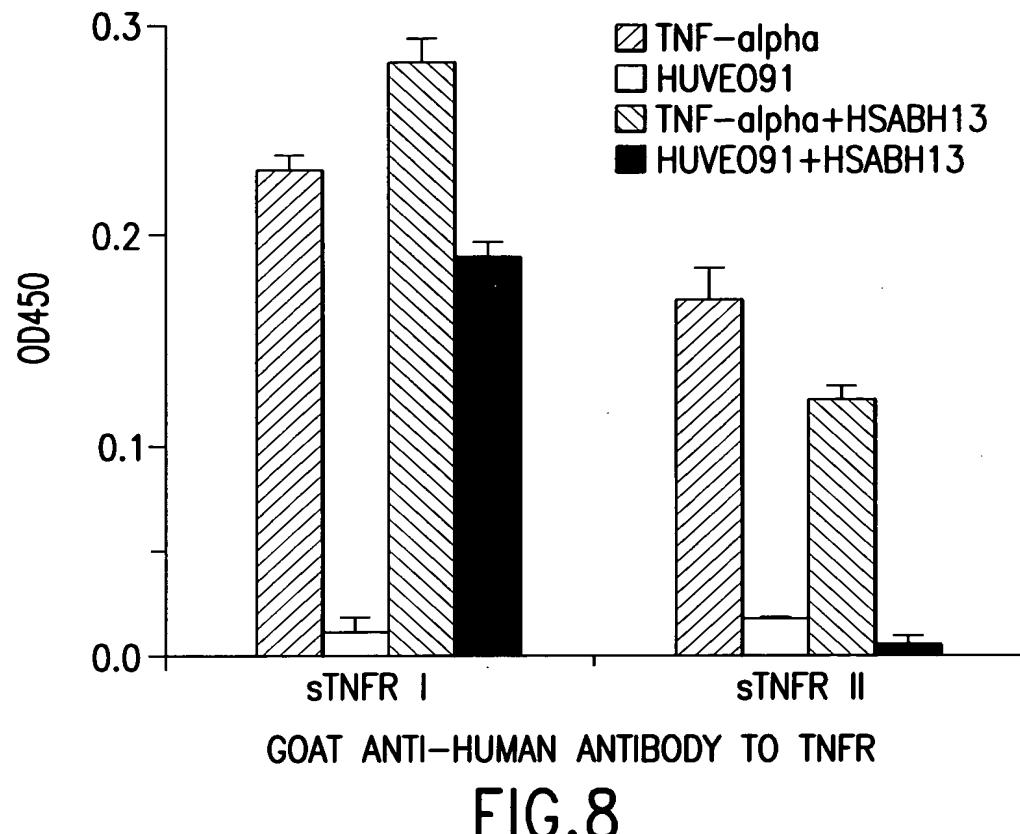
FIG.7

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

Appl. No. 09/526,437; Filed: March 15, 2000
 Dkt. No. 1488.0710005; Group Art Unit: 1647
 Inventor(s): Greene *et al.*; Tel: 202/371-2600
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HSABH13 DOES NOT COMPETE WITH sTNFR I TO BIND TNF-ALPHA,
 MAY COMPETE WITH sTNFR II TO BIND TNF-ALPHA



APPROV	D.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

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TITER OF RABBIT #11509 TESTED AGAINST
 TNFr BATCH HG02900-1-B

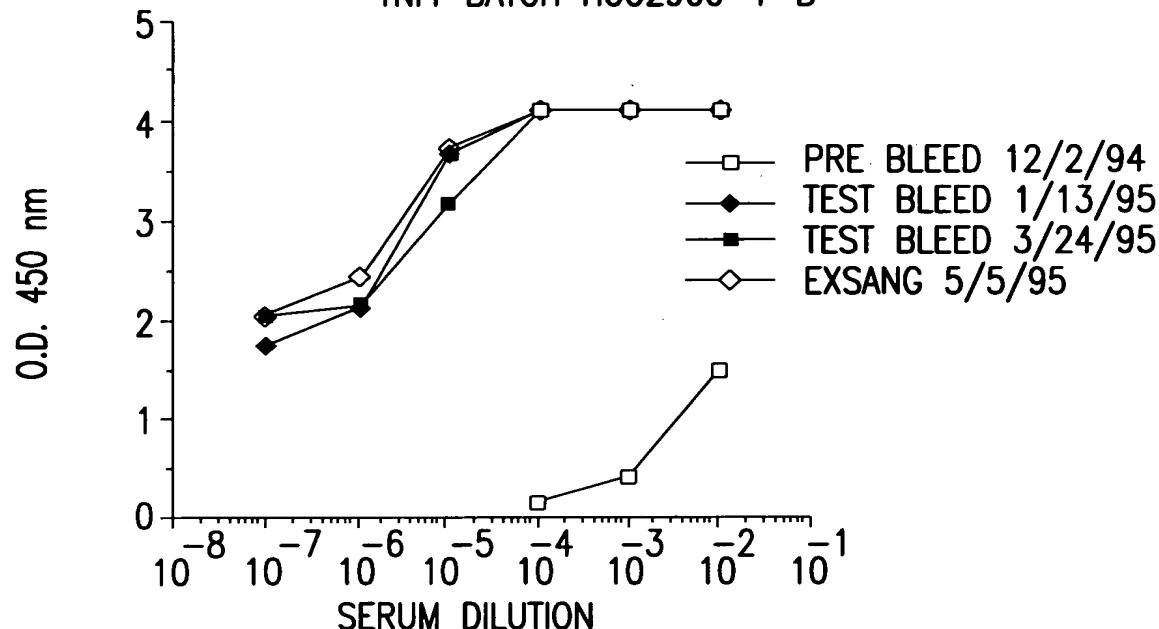


FIG.9A

TITER OF RABBIT #11508 TESTED AGAINST
 TNFr BATCH HG02900-1-B

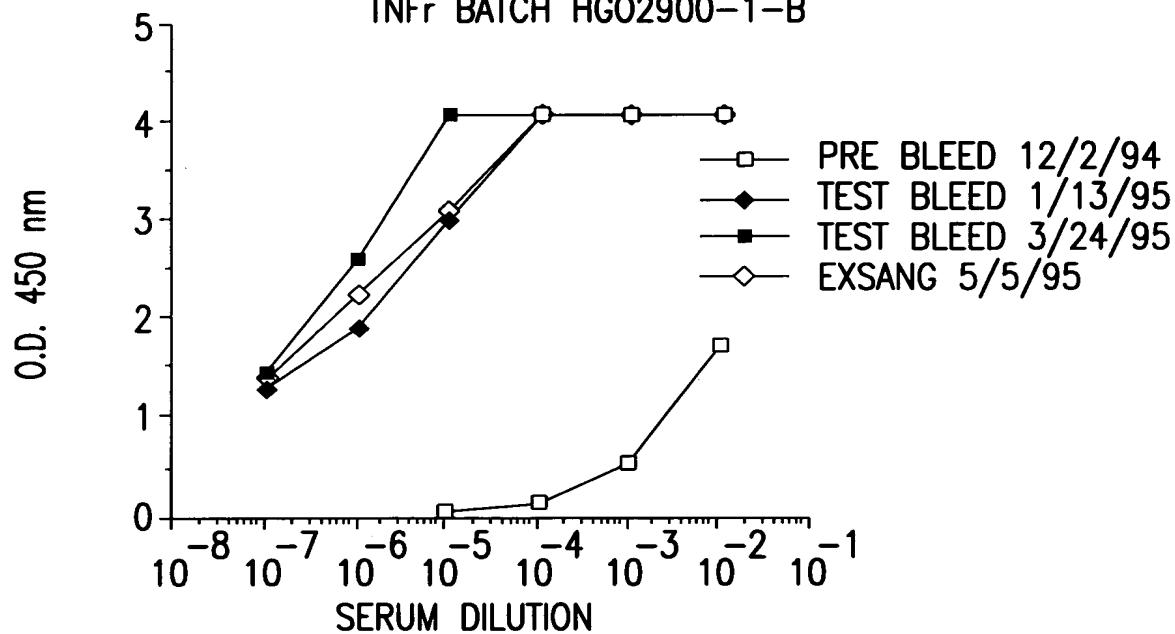


FIG.9B